

# YIXIN CHEN

Ph.D. Researcher in Human Behavior | Data Scientist

## EXPERIENCE

**Ph.D. Researcher** | Boston University | Sept 2018 - Current

- Study human behavior via interdisciplinary methods.
  - Built a reinforcement learning model that behaves like humans, which contributed to winning a collaborative NIH R01 grant and an NSF R21 grant.
  - Conducted behavioral experiments and analyzed data of 800+ participants in Python/R to test decision-making theories in Psychology and Economics.
- Develop large-scale data analysis and experimentation tools.
  - Wrote Bayesian optimization and parallel computing scripts in R and Shell to facilitate large-scale data analysis.
  - Coded web-based games in JavaScript and integrated them with mTurk and Qualtrics to build an end-to-end online experimentation pipeline.
- Communicate quantitative topics to a diverse audience.
  - Wrote a manuscript, gave 2 talks, and presented 2 posters as the first author.
  - Taught 60+ discussion sections on statistics and experiment design.

**Data Scientist** | Qingsi Technologies Co., Ltd. | June 2021 - Sept 2021

- Wrote a Python module for ANOVA tests that provides better support for simple effects and post hoc analysis than the state-of-art package "statsmodels".
- Developed a scalable testing framework to quality-check the in-house Python module over a mixed set of problem instances.
- Collaborated closely with the product and engineering teams in providing written module documentation and in addressing questions.

**Research Assistant** | University of Pennsylvania | June 2017 - Sept 2017

- Studied decision-making behavior using eye tracking and physiological recordings.

**Research Intern** | Tencent Research Institution | Nov 2016 - Dec 2016

- Assisted in a 1-month field experiment that investigated the psychological impacts of short-term social media abstinence.

## Education

**Boston University** | Ph.D. in Cognitive Science | Graduating May 2023

**Tsinghua University** | B.S. with Honors in Psychology | Graduated June 2018

**Peking University** | Dual degree in Economics | Graduated June 2018

## Fellowships, Awards, and Honors

2021, Clara Mayo Memorial Fellowship, Boston University

2017, Top Open Fellowship, Tsinghua University

2017, Fellowship for Scientific Innovation, Tsinghua University

2015-2016, Fellowship for Academic Excellence, Tsinghua University

2015-2016, China Finance 40 Forum Student Fellowship, Beijing, China

## Programming

Python | R | SQL | Git

## Statistics

Hypothesis Testing

Statistical Modeling

Bayesian Methods

## Research skills

Controlled Experiments

Modeling of Behavior

Online Games

Questionnaires

## PhD-level courses

Generalized Linear Models | 4.0

Statistics of Networks | 4.0

Stats for Quant Research | 4.0

Neural Models | 4.0

## Language

English

Mandarin

## Contact

chenyx0612@gmail.com

857-930-3550

xyxchen.github.io

GitHub: yxyxchen

LinkedIn: yixin-chen-cyx